

M

SERIES



SELECTION

Choose the model that best matches room conditions.


STEP 1

SELECT SERIES

A multiple series line-up to choose from, each with various outstanding features. In addition to inverter-equipped models, constant-speed, floor-standing and cassette models can be selected. Choose the best series to match usage needs.

Wall-mounted Units

MSZ-F SERIES



DC Inverter

Super energy-saving

25/35 SEER A+++


25/35 SCOP A+++

25/35 Ultra-quiet

Cooling Heating

MXZ connection

MSZ-E SERIES



DC Inverter


25/35 SEER A+++

25/35 SCOP A++

Cooling Heating

MXZ connection

MSZ-S SERIES



DC Inverter


SEER A++

SCOP A+

Cooling Heating

MXZ connection

MSZ-G SERIES



DC Inverter


SEER A++

SCOP A+

Cooling Heating

MXZ connection

MSZ-H SERIES



DC Inverter

50 SEER A+

50 SCOP A+


Cooling Heating

MXZ connection

Floor-standing

Cassette Units

MFZ SERIES



DC Inverter


Cooling Heating

MXZ connection

25 SEER A+++

SCOP A+++

MLZ SERIES



DC Inverter

Cooling Heating

MXZ connection

* MXZ connection only

DC Inverter

Super energy-saving

Super energy-saving

SEER A

SCOP A

Energy Rank

Ultra-quiet

Ultra-quiet operation

Cooling Heating

Cooling and heating operation

MXZ connection

Compatible for connection to MXZ Series system


* To confirm compatibility with the MXZ Series multi-type system, refer to the MXZ Series page.

STEP 2


SELECT OUTDOOR UNIT

Some outdoor units in the line-up have heaters for use in cold regions. Units with an “H” in the model name are equipped with heaters.

Heater Installed



MUZ-FH25/35VEHZ
MUZ-EF25/35VEH
MUZ-SF25/35/42VEH
MUFZ-KJ25/35VEHZ



MUZ-FH50VEHZ
MUZ-SF50VEH
MUFZ-KJ50VEHZ

Selecting a Heater-equipped Model

In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.

1) Cold outdoor temperatures (temperature does not rise above 0°C all day)

2) Areas where dew forms easily (in the mountains, valleys(surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall

To prevent water from freezing in the base, it is recommended that a unit with a built-in heater be purchased. Please ask your dealer representative about the best model for you.

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MSZ-F SERIES

MSZ-FH25/35/50VE

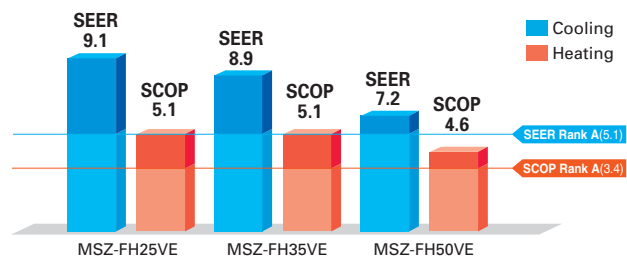


The F Series is designed for optimum cooling/heating performance as well as operational comfort. Quiet, energy-saving operation is supported by some of Mitsubishi Electric's latest technologies. Advanced functions such as "3D i-see Sensor" temperature control and the Plasma Quad air purification system raise room comfort levels to new heights.

High Energy Efficiency



Power consumption has been reduced for the cooling and heating modes thanks to the incorporation of our newest inverter technologies. The high energy efficiency of the Size 25 units has obtained a rating of more than 5.0 for both seasonal coefficient of performance (SCOP) and seasonal energy efficiency rating (SEER).

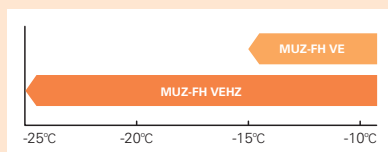


Hyper Heating

The Hyper Heating feature is incorporated, realizing powerful heating even in the harsh cold. Even users in cold regions can comfortably rely on the MSZ-FH Series for all their heating needs.

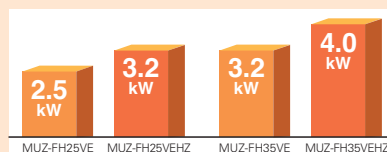
Operation Guaranteed at Outside Temperature of -25°C

MUZ-FH VEHZ can be operated at outside temperatures as low as -25°C, so there are no concerns about use even in very cold climates.



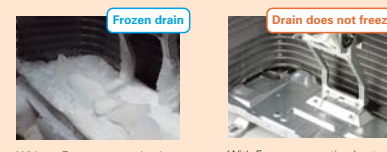
Rated Capacity Demonstrated at Outside Temperatures of -15°C

With rated capacity ensured at outside temperature as low as -15°C, the FH Series can be relied upon to properly warm living spaces even in severe cold snaps.



Freeze-prevention Heater Equipped as Standard (VEHZ)

The Freeze-prevention heater prevents lowered capacity due to the drain freezing and also inhibits operation shutdowns.



Selecting a Heater-equipped Model

In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.

- 1) Cold outdoor temperatures (temperature does not rise above 0°C all day)
- 2) Areas where dew forms easily (in the mountains, valleys(surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall

To prevent water from freezing in the base, it is recommended that a unit with a built-in heater be purchased. Please ask your dealer representative about the best model for you.

Plasma Quad

Air, like water, is something we use everyday unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Achieving this healthy air is Plasma Quad, a plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens and dust, which the air contains countless particles of.

Bacteria

Test results have confirmed that Plasma Quad neutralizes 99% of bacteria in 115 minutes in a 25m³ test space.

Plasma Quad off

Plasma Quad on

(Test No.) KRCEs-Bio.Test Report No.23_0371

Viruses

Test results have confirmed that Plasma Quad neutralizes 99% of virus particles in 65 minutes in a 25m³ test space.

Without Plasma Quad

With Plasma Quad

* Hepatic cells turn transparent when affected by a virus.
(Test No.) vrc.center, SMC No.23-002

Allergens

In a test, air containing cat fur and pollen was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad neutralizes 94% of cat fur and 98% of pollen.

(Test No.) ITEA No.12M-RPTFEB022

Dust

In a test, air containing dust and ticks was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad removes 88.6% of dust and ticks.

(Test No.) ITEA No.12M-RPTFEB022

Effective deodorizing using the air-purifying filter

(Image)

[Effective Range]

Macro ← Particulate size → Nano

Dust	Allergens	Viruses	Bad Odours
	Pollen Bacteria Mold spores	Viruses	Pet odours Fish odours Rubbish odours

Plasma Quad

Air-purifying filter

Principle of Plasma Quad

Plasma Quad attacks bacteria and viruses from inside the unit using a strong curtain-like electrical field and discharge of electric current across the whole inlet-air opening of the unit. Tungsten discharge electrodes are used as they provide both discharge capacity and strength. In addition, through flattening the standard, round form of the field to a ribbon-like shape, a strong electrical field is produced.

Air

Virus

Bacteria

Dust

Plasma field

Neutralization/inactivation

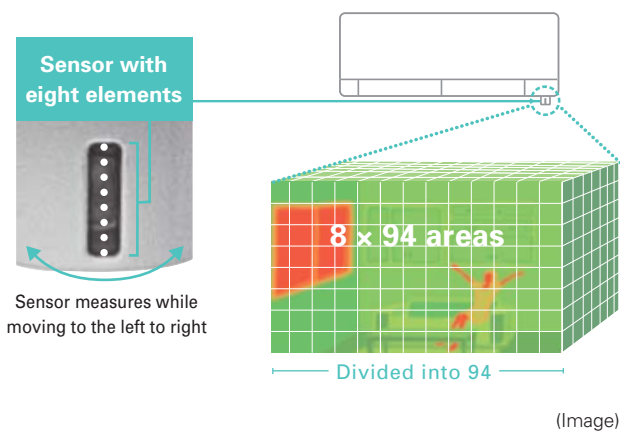
Air

Round:

Flattened: a strong electrical field is produced.

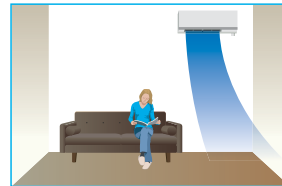
3D i-see Sensor

The FH Series is equipped with 3D i-see Sensor, an infrared-ray sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as "Indirect airflow," to avoid airflow hitting people directly, and "direct airflow" to deliver airflow to where people are.



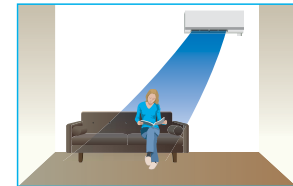
Indirect Airflow

The indirect airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling to avert airflow and prevent body temperature from becoming excessively cooled.



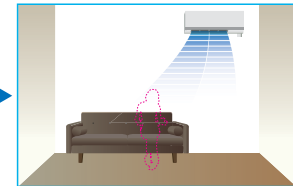
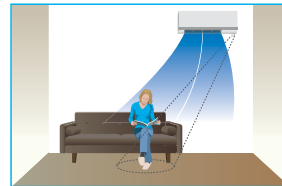
Direct Airflow

This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.



Absence Detection

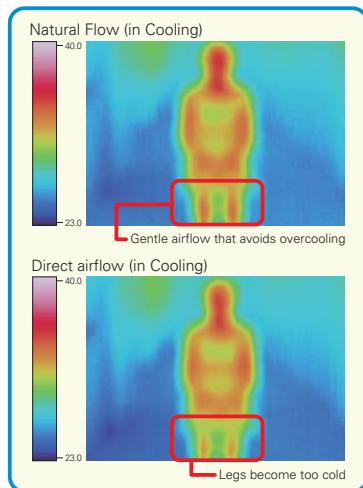
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

Natural Flow

To create "healthy" airflow, the most important aspect is that the flow of air feels natural. Mitsubishi Electric's solution to this is Natural Flow, only possible thanks to our technology that freely and flexibly controls airflow.



Double Vane



Mitsubishi Electric's double vane separates the airflow in the left and right directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different locations.

Through realizing airflow that imitates a natural breeze, we have avoided the unpleasant feeling of being hit directly by constant, unnatural airflow.

Base data for Natural Flow



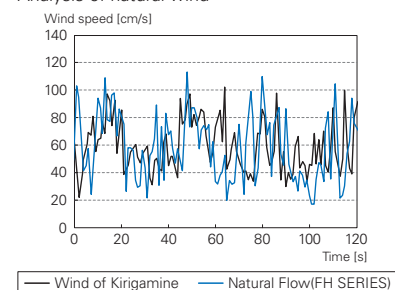
Kirigamine Highland



measuring actual data of natural wind

Kirigamine Highland is one of the most famous sightseeing spots in Japan, and is visited by a large number of people for its pleasant and comfortable environment. At Mitsubishi Electric, we have attempted to recreate this Kirigamine Highland comfort. As part of development, seeking to create a natural airflow, we measured actual data on the refreshing breezes of Kirigamine Highland. Through imitating the natural waveforms of this data, we have been able to recreate almost-imperceptible currents of gently comforting airflow.

Analysis of natural wind



MSZ-F SERIES



Indoor Unit



MSZ-FH25/35/50VE

Outdoor Unit



MUZ-FH25/35VE



MUZ-FH50VE

Remote Controller



Type				Inverter Heat Pump			
Indoor Unit				MSZ-FH25VE	MSZ-FH35VE	MSZ-FH50VE	
Outdoor Unit				MUZ-FH25VE	MUZ-FH35VE	MUZ-FH50VE	
Refrigerant				R410A ⁽¹⁾			
Power Supply	Source			Outdoor Power supply			
	Outdoor (V / Phase / Hz)			230/Single/50			
Cooling	Design load		kW	2.5	3.5	5.0	
	Annual electricity consumption ⁽²⁾		kWh/a	96	138	244	
	SEER ⁽⁴⁾			9.1	8.9	7.2	
	Energy efficiency class			A+++	A+++	A++	
	Capacity	Rated	kW	2.5	3.5	5.0	
		Min-Max	kW	1.4-3.5	0.8-4.0	1.9-6.0	
Total Input		Rated	kW	0.485	0.820	1.380	
Heating (Average Season) ⁽³⁾	Design load		kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	
	Declared Capacity	at reference design temperature	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	
		at bivalent temperature	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	
		at operation limit temperature	kW	2.5(-15°C)	3.2(-15°C)	5.2(-15°C)	
	Back up heating capacity		kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
	Annual electricity consumption ⁽²⁾		kWh/a	819	986	1372	
	SCOP ⁽⁴⁾			5.1	5.1	4.6	
	Energy efficiency class			A+++	A+++	A++	
	Capacity	Rated	kW	3.2	4.0	6.0	
		Min-Max	kW	1.8-5.5	1.0-6.3	1.7-8.7	
Total Input		Rated	kW	0.580	0.800	1.480	
Operating Current (Max)				A	9.6	10.0	14.0
Indoor Unit	Input		Rated	kW	0.029	0.029	0.031
	Operating Current(Max)			A	0.4	0.4	
	Dimensions		H*W*D	mm	305(+17)-925-234	305(+17)-925-234	
	Weight		kg	13.5	13.5	13.5	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁵⁾ (Dry/Wet))	Cooling	m³/min	3.9-4.7-6.3-8.6-11.6	3.9-4.7-6.3-8.6-11.6	6.4-7.4-8.6-10.1-12.4	
		Heating	m³/min	4.0-4.7-6.4-9.2-13.2	4.0-4.7-6.4-9.2-13.2	5.7-7.2-9.0-11.2-14.6	
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽⁶⁾)	Cooling	dB(A)	20-23-29-36-42	21-24-29-36-42	27-31-35-39-44	
		Heating	dB(A)	20-24-29-36-44	21-24-29-36-44	25-29-34-39-46	
	Sound Level (PWL)		Cooling	dB(A)	58	58	60
	Dimensions		H*W*D	mm	550-800-285	880-840-330	
Outdoor Unit	Weight		kg	37	37	55	
	Air Volume	Cooling	m³/min	31.3	33.6	48.8	
		Heating	m³/min	31.3	33.6	51.3	
	Sound Level (SPL)	Cooling	dB(A)	46	49	51	
		Heating	dB(A)	49	50	54	
	Sound Level (PWL)	Cooling	dB(A)	60	61	64	
		Heating	dB(A)	61	61	64	
	Operating Current (Max)		A	9.6	9.6	13.6	
Ext. Piping	Breaker Size		A	9.2	10	16	
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 12.7	
	Max.Length	Out-In	m	20		30	
	Max.Height	Out-In	m	12	12	15	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46		
	Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24		

⁽¹⁾ Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂ over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

⁽²⁾ Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

⁽³⁾ SHi: Super High

⁽⁴⁾ SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

⁽⁵⁾ Please see page 47 for heating (warmer season) specifications.



MSZ-E SERIES

Developed to complement modern interior room décor, Kirigamine ZEN air conditioners are available in three colours specially chosen to blend in naturally wherever installed.

MSZ-EF18-50VE2B



Stylish Line-up Matches Any Room Décor

The streamlined wall-mounted indoor units have eloquent silver-bevelled edges, expressing sophistication and quality. Combining impressively low power consumption and quiet yet powerful performance, these units provide a best-match scenario for diverse interior designs while simultaneously ensuring maximum room and energy savings.



Energy-efficient Operation



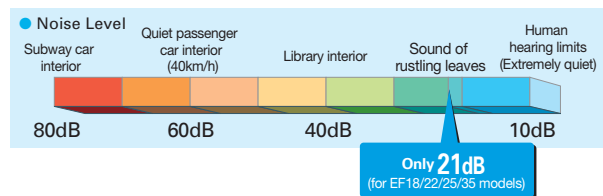
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

Indoor \ Outdoor	Rank A for single connection	Compatibility									
	MUZ-EF25/35VE (H) MUZ-EF42/50VE	MXZ									
		2D33VA	2D40VA	2D53VA	3D54VA	3D68VA	4D72VA	4D83VA	5D102VA	6C122VA	
MSZ-EF18VE2	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MSZ-EF22VE2	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MSZ-EF25VE2	A+++ / A++(A+++)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MSZ-EF35VE2	A+++ / A++(A++)		✓	✓	✓	✓	✓	✓	✓	✓	
MSZ-EF42VE2	A++ / A+			✓	✓	✓	✓	✓	✓	✓	
MSZ-EF50VE2	A++ / A			✓	✓	✓	✓	✓	✓	✓	

*VEH

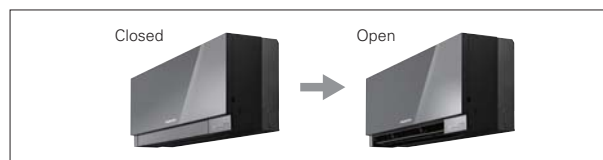
Quiet Comfort All Day Long

Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 21dB for EF18/22/25/35 models. This unique feature makes the Kirigamine ZEN series ideal for use in any situation.



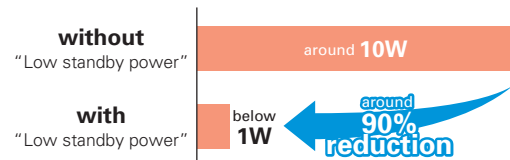
Superior Exterior and Operating Design Concept

The indoor unit of the Kirigamine ZEN keeps its amazingly thin form even during operation. The only physical change notable is the movement of the variable vent. As a result, a slim attractive look is maintained.



Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



Outdoor Units for Cold Region (25/35)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.



MSZ-E SERIES



Indoor Unit



MSZ-EF18/22/25/35/42/50VE2W

White



MSZ-EF18/22/25/35/42/50VE2S

Silver



MSZ-EF18/22/25/35/42/50VE2B*

Black

*Soft-dry Cloth is enclosed with Black models.

Outdoor Unit



MUZ-EF25/35VE(H),42VE



MUZ-EF50VE

Remote Controller



Type				Inverter Heat Pump								
Indoor Unit				MSZ-EF18VE2	MSZ-EF22VE2	MSZ-EF25VE2	MSZ-EF25VE2	MSZ-EF35VE2	MSZ-EF35VE2	MSZ-EF42VE2	MSZ-EF50VE2	
Outdoor Unit				for MXZ connection		MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE	
Refrigerant				R410A ⁽¹⁾								
Power Supply	Source			Outdoor Power supply								
	Outdoor (V / Phase / Hz)			230/Single/50								
Cooling	Design load		kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0	
	Annual electricity consumption ⁽²⁾		kWh/a	-	-	103	103	144	144	192	244	
	SEER ⁽⁴⁾			-	-	8.5	8.5	8.5	8.5	7.7	7.2	
	Energy efficiency class			-	-	A+++	A+++	A+++	A+++	A++	A++	
	Capacity	Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0	
		Min-Max	kW	-	-	1.2-3.4	1.2-3.4	1.4-4.0	1.4-4.0	0.9-4.6	1.4-5.4	
Total Input		Rated	kW	-	-	0.545	0.545	0.910	0.910	1.280	1.560	
Heating (Average Season) ⁽³⁾	Design load		kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)	
	Declared Capacity	at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)	
		at bivalent temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)	
		at operation limit temperature	kW	-	-	2.0(-15°C)	1.6(-20°C)	2.4(-15°C)	1.7(-20°C)	3.4(-15°C)	3.5(-15°C)	
	Back up heating capacity		kW	-	-	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
	Annual electricity consumption ⁽²⁾		kWh/a	-	-	716	730	882	910	1155	1309	
	SCOP ⁽⁴⁾			-	-	4.7	4.6	4.6	4.5	4.6	4.5	
	Capacity	Energy efficiency class		-	-	A++	A++	A++	A+	A++	A+	
		Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8	
		Min-Max	kW	-	-	1.1-4.2	1.1-4.2	1.8-5.5	1.8-5.5	1.4-6.3	1.6-7.5	
Total Input		Rated	kW	-	-	0.700	0.700	0.955	0.955	1.460	1.565	
Operating Current (Max)				A	-	-	7.3	7.3	8.5	8.5	9.5	12.4
Indoor Unit	Input		Rated	kW	0.027	0.027	0.027	0.027	0.031	0.031	0.031	0.034
	Operating Current(Max)		A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	
	Dimensions		H*W*D	mm	299-895-195	299-895-195	299-895-195	299-895-195	299-895-195	299-895-195	299-895-195	
	Weight		kg	-	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾ (Dry/Well)	Cooling	m ³ /min	40-46-63-83-105	40-46-63-83-105	40-46-63-83-105	40-46-63-83-105	40-46-63-83-105	40-46-63-83-105	58-66-77-89-103	58-68-79-93-110	
		Heating	m ³ /min	40-46-62-89-119	40-46-62-89-119	40-46-62-89-119	40-46-62-89-119	40-46-62-89-127	40-46-62-89-127	55-63-78-99-127	64-73-90-111-132	
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	dB(A)	21-23-29-36-42	21-23-29-36-42	21-23-29-36-42	21-23-29-36-42	21-24-29-36-42	21-24-29-36-42	28-31-35-39-42	30-33-36-40-43	
		Heating	dB(A)	21-24-29-37-45	21-24-29-37-45	21-24-29-37-45	21-24-29-37-45	21-24-30-38-46	21-24-30-38-46	28-30-35-41-48	30-33-37-43-49	
	Sound Level (PWL)		Cooling	dB(A)	-	-	60	60	60	60	60	60
	Dimensions		H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	880-840-330
Outdoor Unit	Weight		kg	-	-	30	30	35	35	35	54	
	Air Volume	Cooling	m ³ /min	-	-	32.6	32.6	33.6	33.6	35.2	44.6	
		Heating	m ³ /min	-	-	32.2	32.2	33.6	33.6	33.6	44.6	
	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49	49	50	52	
		Heating	dB(A)	-	-	48	48	50	50	51	52	
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	61	61	62	65	
		Heating	dB(A)	-	-	58	58	61	61	62	65	
	Operating Current (Max)		A	-	-	7.0	7.0	8.2	8.2	9.2	12.0	
Breaker Size		A	-	-	10	10	10	10	10	16		
Ext. Piping	Diameter		Liquid/Gas	mm	-	-	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max.Length		Out-In	m	-	-	20	20	20	20	30	
	Max.Height		Out-In	m	-	-	12	12	12	12	15	
Guaranteed Operating Range (Outdoor)				Cooling	°C	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
				Heating	°C	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHi: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 47 for heating (warmer season) specifications.

MSZ-S SERIES MSZ-G SERIES

Introducing a compact and stylish indoor unit with amazingly quiet performance. Not only are neat installations in small bedrooms possible, increase energy-savings by selecting the optimal capacity required for each room.

MSZ-SF15/20VA

MSZ-SF25/35/42/50VE

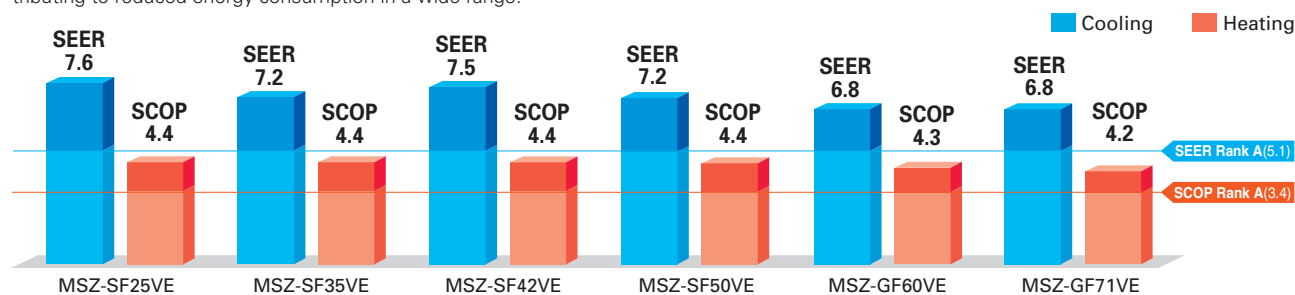
MSZ-GF60/71VE



"Rank A++/A+" Energy Savings Achieved for Entire Range of Series



All models in the series, from the low-capacity 25 to the high-capacity 71, have achieved the "Rank A++" for SEER and "Rank A+" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced energy consumption in a wide range.



Wide Line-up

Eight different indoor units (Model 15-71) are available to meet your diversified air conditioning needs.



MSZ-SF15 / 20VA*
*for MXZ connection



MSZ-SF25 / 35 / 42 / 50VE



MSZ-GF60 / 71VE

Compact and Stylish

(MSZ-SF15/20VA)

The stylish, square indoor unit adds a touch of class to any room interior. The compact design is 64mm thinner than our previous indoor unit with the lowest output capacity (MSZ-GE22VA).

Comparison with our previous model GE



Family Design

(MSZ-SF15/20/25/35/42/50)

Models in the 25-50 class are introduced as single-split units while retaining the popular design of the SF15/20VA* as indoor units exclusively for multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.

*Size may vary.



“Weekly Timer”

Weekly
Timer

Easily set desired temperatures and operation start/stop times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

■ Example Operation Pattern (Winter/Heating mode)

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
8:00	Automatically changes to high-power operation at wake-up time						
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
14:00							
16:00							
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside-air temperature is low	
22:00							
(during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
	Automatically lowers temperature at bedtime for energy-saving operation at night						

Settings

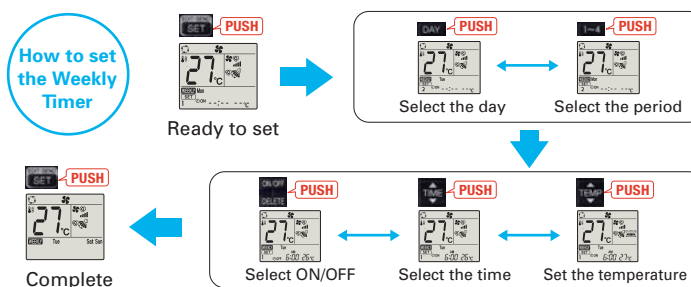
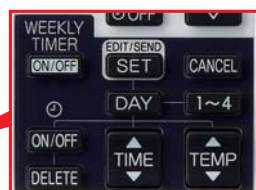
Pattern Settings: Input up to four settings for each day

Settings: •Start/Stop operation •Temperature setting *The operation mode cannot be set.

■ Easy set-up using dedicated buttons



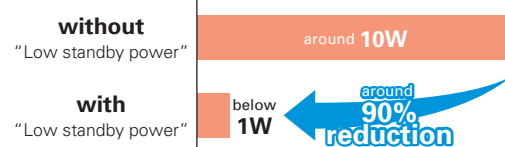
The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



- Start by pushing the “SET” button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the “SET” button one more time. (Push the “SET” button only after inputting all of the desired patterns into the remote controller memory. Pushing the “CANCEL” button will end the set-up process without sending the operation patterns to the indoor unit).
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.
- When “Weekly Timer” is set, temperature can not be set 10°C.

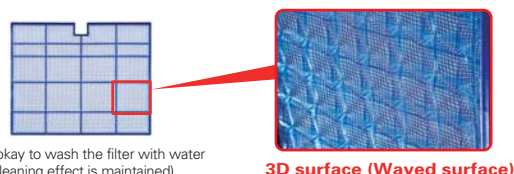
Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



Nano Platinum Filter (MSZ-SF25/35/42/50, MSZ-GF60/71)

This filter incorporates nanometre-sized platinum-ceramic particles that generate stable antibacterial and deodorising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Nano Platinum Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.

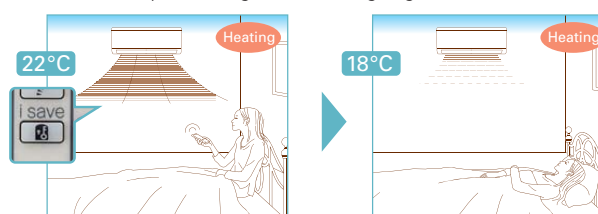


* It is okay to wash the filter with water (air-cleaning effect is maintained)

“i save” Mode

i save

“i save” is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable, waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.



* Temperature can be preset to 10°C when heating in the “i-save” mode (except when connected to MXZ-8B140VA/YA, MXZ-8B160VA/YA).

Outdoor Units for Cold Region (25/35/42/50)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.



MSZ-S SERIES



Indoor Unit



MSZ-SF15/20VA

Outdoor Unit

For MXZ Connection Only

Remote Controller



Type			Inverter Heat Pump							
Indoor Unit			MSZ-SF15VA	MSZ-SF20VA	MSZ-SF25VE	MSZ-SF25VE	MSZ-SF35VE	MSZ-SF35VE		
Outdoor Unit			for MXZ connection		MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH		
Refrigerant			R410A ⁽¹⁾							
Power Supply			Outdoor Power supply							
Source			230/Single/50							
Outdoor (V / Phase / Hz)										
Cooling	Design load		kW	-	-	2.5	2.5	3.5	3.5	
	Annual electricity consumption ⁽²⁾		kWh/a	-	-	116	116	171	171	
	SEER ⁽⁴⁾			-	-	7.6	7.6	7.2	7.2	
	Capacity	Energy efficiency class		-	-	A++	A++	A++	A++	
		Rated	kW	-	-	2.5	2.5	3.5	3.5	
	Min-Max		kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8	
Total Input		Rated	kW	-	-	0.600	0.600	1.080	1.080	
Heating (Average Season) ⁽³⁾	Design load		kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	
	Declared Capacity	at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	
		at bivalent temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	
		at operation limit temperature	kW	-	-	2.0(-15°C)	1.6(-20°C)	2.2(-15°C)	1.6(-20°C)	
	Back up heating capacity		kW	-	-	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
	Annual electricity consumption ⁽²⁾		kWh/a	-	-	764	790	923	948	
	SCOP ⁽⁴⁾			-	-	4.4	4.3	4.4	4.3	
	Capacity	Energy efficiency class		-	-	A+	A+	A+	A+	
		Rated	kW	-	-	3.2	3.2	4.0	4.0	
	Min-Max		kW	-	-	1.0-4.1	1.0-4.1	1.3-4.6	1.3-4.6	
Total Input		Rated	kW	-	-	0.780	0.780	1.030	1.030	
Operating Current (Max)			A	-	-	8.4	8.4	8.5	8.5	
Indoor Unit	Input		Rated	kW	0.017	0.019	0.024	0.024	0.027	
	Operating Current(Max)		A	-	0.17	0.19	0.2	0.2	0.3	
	Dimensions		H*W*D	mm	250-760-168	250-760-168	299-798-195	299-798-195	299-798-195	
	Weight		kg	-	7.7	7.7	10	10	10	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁵⁾ Dry/Wet)	Cooling	m ³ /min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	3.5 - 4.1 - 5.6 - 7.2 - 9.1	3.5 - 4.1 - 5.6 - 7.2 - 9.1	3.5 - 4.1 - 5.6 - 7.2 - 9.1	3.5 - 4.1 - 5.6 - 7.2 - 9.1	
		Heating	m ³ /min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	3.5 - 4.1 - 6.7 - 8.2 - 10.3	3.5 - 4.1 - 6.7 - 8.2 - 10.3	3.5 - 4.1 - 6.7 - 8.3 - 11.0	3.5 - 4.1 - 6.7 - 8.3 - 11.0	
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽⁵⁾)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	21 - 24 - 30 - 36 - 42	21 - 24 - 30 - 36 - 42	21 - 24 - 30 - 36 - 42	21 - 24 - 30 - 36 - 42	
Sound Level (PWL)	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	21 - 24 - 34 - 39 - 45	21 - 24 - 34 - 39 - 45	21 - 24 - 34 - 40 - 46	21 - 24 - 34 - 40 - 46		
Sound Level (PWL)			Cooling	dB(A)	-	57	57	57	57	
Dimensions			H*W*D	mm	-	550-800-285	550-800-285	550-800-285	550-800-285	
Outdoor Unit	Weight		kg	-	-	31	31	31	31	
	Air Volume	Cooling	m ³ /min	-	-	31.1	31.1	35.9	35.9	
		Heating	m ³ /min	-	-	30.7	30.7	35.9	35.9	
	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49	49	
		Heating	dB(A)	-	-	48	48	50	50	
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	62	62	
		Heating	dB(A)	-	-	58	58	62	62	
	Operating Current (Max)		A	-	-	8.2	8.2	8.2	8.2	
Breaker Size		A	-	-	10	10	10	10		
Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	
	Max.Length	Out-In	m	-	-	20	20	20	20	
	Max.Height	Out-In	m	-	-	12	12	12	12	
Guaranteed Operating Range (Outdoor)			Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
			Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHi: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 47 for heating (warmer season) specifications.

MSZ-S SERIES
MSZ-G SERIES



Indoor Unit



MSZ-SF25/35/42/50VE



MSZ-GF60/71VE

Outdoor Unit



MUZ-SF25/35/42VE(H)



MUZ-SF50VE(H)
MUZ-GF60/71VE

Remote Controller



Type				Inverter Heat Pump						
Indoor Unit				MSZ-SF42VE	MSZ-SF42VE	MSZ-SF50VE	MSZ-SF50VE	MSZ-GF60VE	MSZ-GF71VE	
Outdoor Unit				MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE	
Refrigerant				R410A ⁽¹⁾						
Power Supply		Source		Outdoor Power supply						
		Outdoor (V / Phase / Hz)		230/Single/50						
Cooling	Design load		kW	4.2	4.2	5	5	6.1	7.1	
	Annual electricity consumption ⁽²⁾		kWh/a	196	196	246	246	311	364	
	SEER ⁽⁴⁾			7.5	7.5	7.2	7.2	6.8	6.8	
	Energy efficiency class			A++	A++	A++	A++	A++	A++	
	Capacity									
	Rated		kW	4.2	4.2	5	5	6.1	7.1	
Heating (Average Season) ⁽³⁾	Declared Capacity		at reference design temperature	kW	3.8(-10°C)	3.8(-10°C)	4.2(-10°C)	4.2(-10°C)	4.6(-10°C)	6.7(-10°C)
			at bivalent temperature	kW	3.8(-10°C)	3.8(-10°C)	4.2(-10°C)	4.2(-10°C)	4.6(-10°C)	6.7(-10°C)
			at operation limit temperature	kW	3.4(-15°C)	2.2(-20°C)	3.4(-15°C)	2.3(-20°C)	3.7(-15°C)	5.4(-15°C)
	Back up heating capacity		kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
	Annual electricity consumption ⁽²⁾		kWh/a	1215	1242	1351	1380	1489	2204	
	SCOP ⁽⁴⁾			4.4	4.3	4.4	4.3	4.3	4.2	
Operating Current (Max)	Energy efficiency class			A+	A+	A+	A+	A+	A+	
	Capacity									
	Rated		kW	5.4	5.4	5.8	5.8	6.8	8.1	
	Min-Max		kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-9.3	2.2-9.9	
	Total Input		Rated	kW	1.580	1.58	1.7	1.7	1.81	2.23
			A	9.5	9.5	12.3	12.3	14.5	16.6	
Indoor Unit	Input		Rated	kW	0.027	0.027	0.035	0.035	0.062	0.058
	Operating Current(Max)		A	0.3	0.3	0.3	0.3	0.5	0.5	
	Dimensions		H*W*D	mm	299-798-195	299-798-195	299-798-195	299-798-195	325-1100-238	325-1100-238
	Weight		kg	10	10	10	10	16	16	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁵⁾ (Dry/Well)		Cooling	m ³ /min	5.0 - 5.8 - 6.7 - 7.9 - 9.1	5.0 - 5.8 - 6.7 - 7.9 - 9.1	5.6 - 6.2 - 7.0 - 8.2 - 9.9	5.6 - 6.2 - 7.0 - 8.2 - 9.9	9.8-11.3-13.4-15.6-18.3	9.7-11.5-13.3-15.4-17.8
			Heating	m ³ /min	5.0 - 5.8 - 7.2 - 9.1 - 11.4	5.0 - 5.8 - 7.2 - 9.1 - 11.4	5.6 - 6.4 - 8.0 - 9.8 - 12.0	5.6 - 6.4 - 8.0 - 9.8 - 12.0	9.8-11.3-13.4-15.6-18.3	10.2-11.5-13.3-15.4-17.8
Outdoor Unit	Sound Level (SPL)		Cooling	dB(A)	28 - 31 - 34 - 38 - 42	28 - 31 - 34 - 38 - 42	30 - 33 - 36 - 40 - 45	30 - 33 - 36 - 40 - 45	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49
			Heating	dB(A)	28 - 31 - 36 - 42 - 47	28 - 31 - 36 - 42 - 47	30 - 33 - 38 - 43 - 49	30 - 33 - 38 - 43 - 49	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49
	Sound Level (PWL)		Cooling	dB(A)	57	57	58	58	65	65
	Dimensions		H*W*D	mm	550-800-285	550-800-285	880-840-330	880-840-330	880-840-330	880-840-330
	Weight		kg	35	35	55	55	50	53	
	Air Volume		Cooling	m ³ /min	35.2	35.2	44.6	44.6	49.2	50.1
Ext. Piping			Heating	m ³ /min	33.6	33.6	44.6	44.6	49.2	48.2
	Sound Level (SPL)		Cooling	dB(A)	50	50	52	52	55	55
			Heating	dB(A)	51	51	52	52	55	55
	Sound Level (PWL)		Cooling	dB(A)	63	63	65	65	65	65
	Operating Current (Max)		A	9.2	9.2	12	12	14	16.1	
	Breaker Size		A	10	10	16	16	20	20	
Guaranteed Operating Range (Outdoor)	Diameter		Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35/15.88	9.52/15.88
	Max.Length		Out-In	m	20	20	30	30	30	30
	Max.Height		Out-In	m	12	12	15	15	15	15
Cooling		°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
Heating		°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHi: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 47 for heating (warmer season) specifications.

MSZ-H SERIES

Compact, high-performance indoor and outdoor units and advanced inverter technologies provide superior energy savings and comfort in all rooms.

MSZ-HJ25/35/50VA



Stylish Design with Flat Panel Front

A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



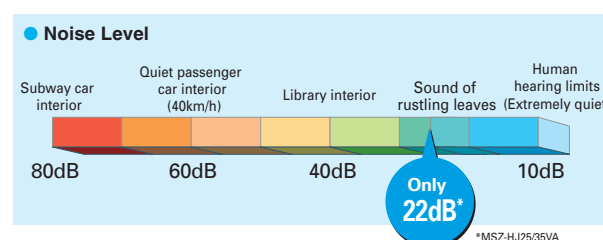
Advanced Inverter Control – Efficient Operation All the Time



Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A" rating for 25-35 classes and "A+" for 50 classes.

Silent Operation

Quiet, relaxing space is within reach. Operational noise is a low 22dB (25-35 classes). Operation is so silent you might even forget the air conditioner is on.



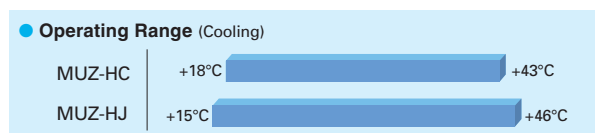
Long Piping Length

Compared to previous models, the piping length is significantly increased, further enhancing the ease and flexibility of installation.

	MSZ-HJ	MSZ-HC
Max piping length	20m	10m
Max piping height	12m	5m

Operating Range

As a result of an extended operating range when cooling, these models accommodate a wider range of usage environments and applications than previous models.



Compact Units

The widths of both indoor and outdoor units are compact, making installation in small, tight spaces possible.

Indoor Unit: MSZ-HJ25/35/50VA



Only 799mm wide

Outdoor Unit: MUZ-HJ25/35VA



Only 699mm wide

MSZ-H SERIES



Indoor Unit



MSZ-HJ25/35/50VA

Outdoor Unit



MUZ-HJ25/35VA



MUZ-HJ50VA

Remote Controller



Type				Inverter Heat Pump						
Indoor Unit				MSZ-HJ25VA		MSZ-HJ35VA		MSZ-HJ50VA		
Outdoor Unit				MUZ-HJ25VA		MUZ-HJ35VA		MUZ-HJ50VA		
Refrigerant				R410A ⁽¹⁾						
Power Supply				Indoor Power supply						
Source				230V/Single/50Hz						
Outdoor (V / Phase / Hz)										
Cooling	Design load		kW	2.5		3.1		5.0		
	Annual electricity consumption ⁽²⁾		kWh/a	171		212		292		
	SEER ⁽⁴⁾			5.1		5.1		6.0		
	Energy efficiency class			A		A		A+		
	Capacity	Rated	kW	2.5		3.15		5.0		
		Min-Max	kW	1.3 - 3.0		1.4 - 3.5		1.3 - 5.0		
Heating (Average Season) ⁽³⁾	Total Input		Rated	kW	0.730		1.040		2.050	
	Design load		kW	1.9(-10°C)		2.4(-10°C)		3.8(-10°C)		
	Declared Capacity	at reference design temperature	kW	1.9(-10°C)		2.4(-10°C)		3.8(-10°C)		
		at bivalent temperature	kW	1.9(-10°C)		2.4(-10°C)		3.8(-10°C)		
		at operation limit temperature	kW	1.9(-10°C)		2.4(-10°C)		3.8(-10°C)		
	Back up heating capacity		kW	0.0(-10°C)		0.0(-10°C)		0.0(-10°C)		
Annual electricity consumption ⁽²⁾		kWh/a	698		885		1267			
Operating Current (Max)	SCOP ⁽⁴⁾			3.8		3.8		4.2		
	Energy efficiency class			A		A		A+		
	Capacity	Rated	kW	3.15		3.6		5.4		
		Min-Max	kW	0.9 - 3.5		1.1 - 4.1		1.4 - 6.5		
	Total Input		Rated	kW	0.870		0.995		1.480	
	Indoor Unit	Input		Rated	kW	0.020		0.021		0.037
Operating Current(Max)		A	0.3		0.3		0.4			
Dimensions		H*W*D	mm		290-799-232		290-799-232			
Weight		kg	9		9		9			
Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁵⁾ [Dry/Wet])		Cooling	m ³ /min	3.8 - 5.5 - 7.3 - 9.5		3.8 - 5.7 - 7.8 - 10.9		6.3 - 9.1 - 11.1 - 12.9		
		Heating	m ³ /min	3.5 - 5.5 - 7.5 - 10.0		3.5 - 5.5 - 7.5 - 10.3		6.1 - 8.3 - 11.1 - 14.3		
Outdoor Unit	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽⁵⁾)	Cooling	dB(A)	22 - 30 - 37 - 43		22 - 31 - 38 - 45		28 - 36 - 40 - 45		
		Heating	dB(A)	23 - 30 - 37 - 43		23 - 30 - 37 - 44		27 - 34 - 41 - 47		
	Sound Level (PWL)	Cooling	dB(A)	57		60		60		
		Heating	dB(A)	57		60		60		
	Dimensions		H*W*D	mm		538-699-249		550-800-285		
	Weight		kg	24		25		36		
Ext. Piping	Air Volume	Cooling	m ³ /min	31.5		31.5		36.3		
		Heating	m ³ /min	31.5		31.5		34.8		
	Sound Level (SPL)	Cooling	dB(A)	50		50		50		
		Heating	dB(A)	50		50		51		
	Sound Level (PWL)	Cooling	dB(A)	63		64		64		
		Heating	dB(A)	63		64		64		
Operating Current (Max)		A	5.5		6.2		9.4			
Breaker Size		A	10		10		12			
Guaranteed Operating Range (Outdoor)	Diameter	Liquid/Gas	mm	6.35/9.52		6.35/9.52		6.35/12.7		
	Max.Length	Out-In	m	20		20		20		
	Max.Height	Out-In	m	12		12		12		
Guaranteed Operating Range (Outdoor)	Cooling	°C	+15 ~ +46		+15 ~ +46		+15 ~ +46			
	Heating	°C	-10 ~ +24		-10 ~ +24		-10 ~ +24			

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂ over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHi: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 47 for heating (warmer season) specifications.

MFZ SERIES

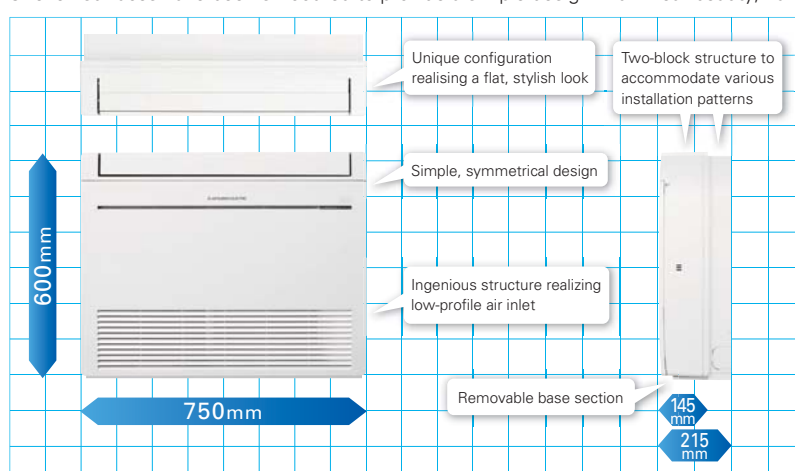
High Capacity, Energy Savings and a Design in Harmony with Living Spaces
Raise the Value of Your Room to the Next Level.

MFZ-KJ25/35/50VE

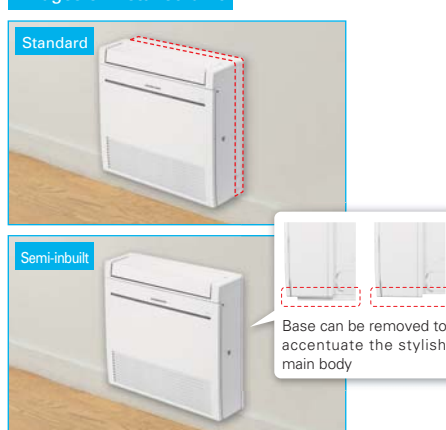


Simple , Flat Design

Uneven surfaces have been smoothed to provide a simple design with linear beauty, harmonised with all types of interiors.

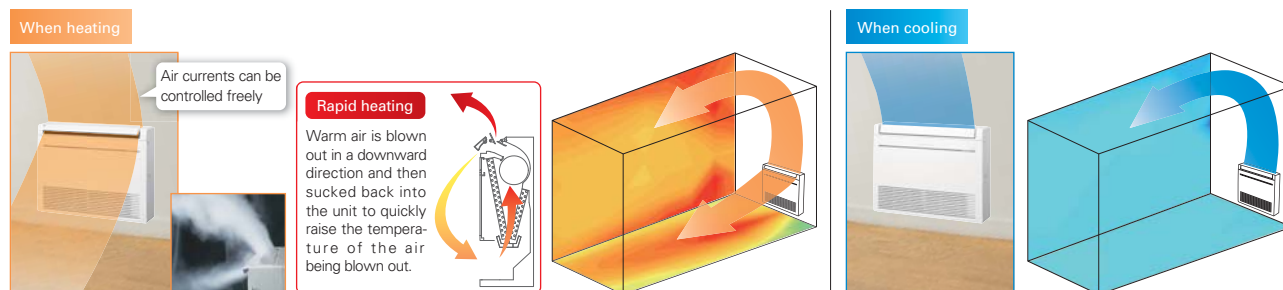


Images of installed unit



Multi-flow Vane

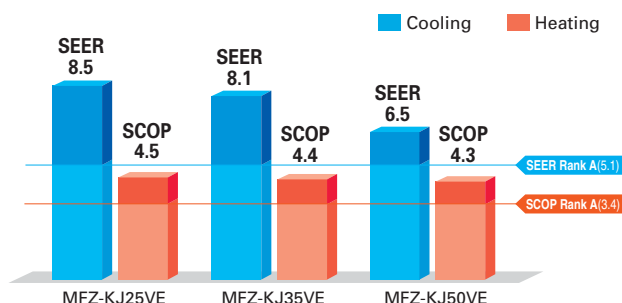
Three uniquely shaped vanes control the airflow and allow the freedom to customize comfort according to preferences.



Excellent Energy-saving Performance

SEER A+++ SCOP A+

SEER A+++ (25) and SCOP A+ (25/35/50) ratings have been achieved through development focusing on compliance with European energy-related product (ErP) regulations.



Weekly Timer

(Introduced in response to market demand)

Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.

Trouble-free Installation and Maintenance

Using the original installation plate that comes as standard equipment, installation of the unit is a snap. Levelling adjusters are provided, preventing damage to the wall. Generous pipe length (20–30 metres) is provided, so there is no need to worry about distance to the outdoor unit. All units are equipped with an automatic self-diagnostics function as well. Simply access the trouble log recall mode for instant troubleshooting.

MFZ-KJ SERIES



Indoor Unit



MFZ-KJ25/35/50VE

Outdoor Unit



MUFG-KJ25/35VE



MUFG-KJ50VE

Remote Controller



Type			Inverter Heat Pump							
Indoor Unit			MFZ-KJ25VE		MFZ-KJ35VE		MFZ-KJ50VE			
Outdoor Unit			MUFG-KJ25VE		MUFG-KJ35VE		MUFG-KJ50VE			
Refrigerant			R410A ^(*)		R410A ^(*)		R410A ^(*)			
Power Supply	Source		Outdoor power supply 230 / Single / 50							
	Outdoor(V/Phase/Hz)									
Cooling	Design load		kW	2.5		3.5		5.0		
	Annual electricity consumption ^(*)		kWh/a	102		150		266		
	SEER ^(*)			8.5		8.1		6.5		
	Energy efficiency class			A+++		A++		A++		
			Capacity	Rated	kW	2.5		3.5		5.0
			Min-Max	kW	0.5 - 3.4		0.5 - 3.7		1.6 - 5.7	
	Total Input		Rated	kW	0.540		0.940		1.410	
Heating (Average Season)	Design load		kW	3.4(-10°C)		3.5(-10°C)		4.4(-10°C)		
	Declared Capacity		at reference design temperature	kW	3.4(-10°C)		3.5(-10°C)		4.4(-10°C)	
			at bivalent temperature	kW	3.4(-10°C)		3.5(-10°C)		4.4(-10°C)	
			at operation limit temperature	kW	2.4(-15°C)		2.9(-15°C)		6.0(-15°C)	
	Back up heating capacity		kW	0.0(-10°C)		0.0(-10°C)		0.0(-10°C)		
	Annual electricity consumption ^(*)		kWh/a	1059		1110		1406		
	SCOP ^(*)			4.5		4.4		4.3		
	Energy efficiency class			A+		A+		A+		
			Capacity	Rated	kW	3.4		4.3		6.0
			Min-Max	kW	1.2 - 4.6		1.2 - 5.5		2.2 - 8.2	
	Total Input		Rated	kW	0.770		1.100		1.610	
Operating Current (Max)			A	9.4		9.4		14.0		
Indoor Unit	Input		Rated	kW	0.016		0.016		0.038	
	Operating Current(Max)		A	0.17		0.17		0.34		
	Dimensions		H*W*D	mm	600-750-215		600-750-215		600-750-215	
	Weight		kg	15		15		15		
	Air Volume (SLo-Lo-Mid-Hi-SHi ^(*))		Cooling	m3/min	3.9 - 4.9 - 5.9 - 7.1 - 8.2		3.9 - 4.9 - 5.9 - 7.1 - 8.2		5.6 - 6.7 - 8.0 - 9.3 - 10.6	
			Heating	m3/min	3.9 - 5.1 - 6.2 - 7.7 - 9.7		3.9 - 5.1 - 6.2 - 7.7 - 9.7		6.0 - 7.4 - 9.4 - 11.6 - 14.0	
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^(*))		Cooling	dB(A)	20 - 25 - 30 - 35 - 39		20 - 25 - 30 - 35 - 39		27 - 31 - 35 - 39 - 44	
			Heating	dB(A)	19 - 25 - 30 - 35 - 41		19 - 25 - 30 - 35 - 41		29 - 35 - 40 - 45 - 50	
Sound Level (PWL)		Cooling	dB(A)	49		50		56		
Outdoor Unit	Dimensions		H*W*D	mm	550-800-285		550-800-285		880-940-330	
	Weight		kg	37		37		55		
	Air Volume		Cooling	m3/min	31.3		31.3		45.8	
			Heating	m3/min	33.6		33.6		45.8	
	Sound Level (SPL)		Cooling	dB(A)	46		47		49	
			Heating	dB(A)	51		51		51	
	Sound Level (PWL)		Cooling	dB(A)	59		60		63	
	Operating Current(Max)		A	9.2		9.2		13.6		
Breaker Size		A	10		10		16			
Ext. Piping	Diameter		Liquid/Gas	mm	6.35/9.52		6.35/9.52		6.35/12.7	
	Max.Length		Out-In	m	20		20		30	
	Max.Height		Out-In	m	12		12		15	
Guaranteed Operating Range [Outdoor]			Cooling	°C	-10 ~ +46		-10 ~ +46		-10 ~ +46	
			Heating	°C	-15 ~ +24		-15 ~ +24		-15 ~ +24	

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High

(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

MLZ SERIES

Introducing a new type of ceiling cassette for the Multi-Split Series with streamed interior dimensions and a sharp, sleek appearance.

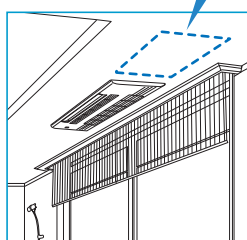
MLZ-KA25/35/50VA



Ceiling Mounted

Installing the ceiling-mounted MLZ Series unit in a room creates a more spacious feel that enhances room comfort. This overhead format is also an excellent solution when lighting equipment is installed at the centre of the room and fixtures such as book shelves are mounted on wall surfaces.

Access door not required



Slim Body

The new units are designed with a slim body (only 175mm high), ensuring easy installation even when low ceiling cavities limit installation space. The need for ceiling cavity service space is also eliminated, further reducing the dimensions required for installation.



Set Airflow According to Ceiling Height

Dual-level airflow selection is engineered to accommodate specific ceiling heights. This is a key feature for adjusting airflow effectively when it is either too strong or too weak due to being mismatched with the height of the ceiling.

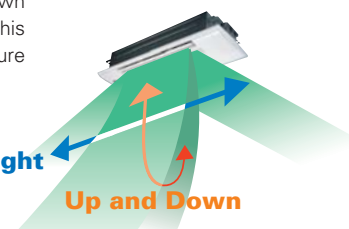
	25	35	50
Standard	2.4m	2.4m	2.4m
High ceiling	2.7m	2.7m	2.7m

Auto Vane Control

Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.

Left and Right

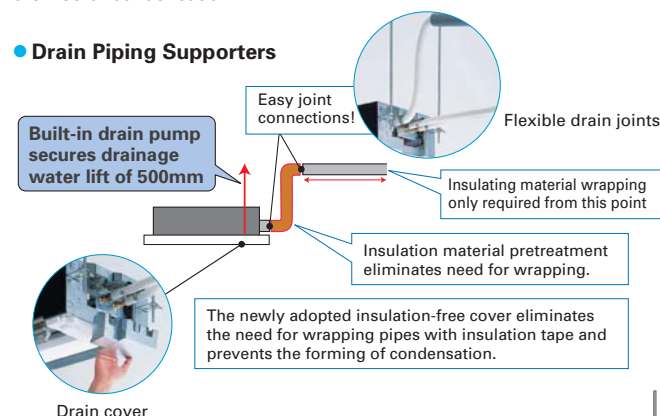
Up and Down



Easy Installation

A built-in drain pump (500mm lift) and flexible drain joints make attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation. Tight yet flexible fittings eliminate the need of wrapping with heat-insulation tape, and ensure that pipe and drain cover connections are free of condensation.

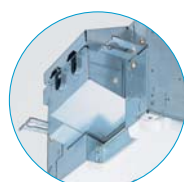
● Drain Piping Supporters



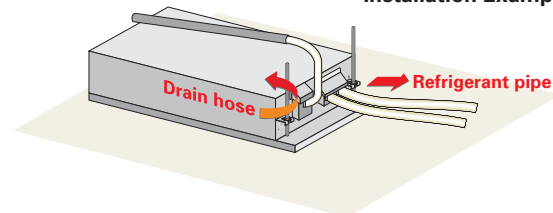
Drain cover

● Easy Mounting Plate

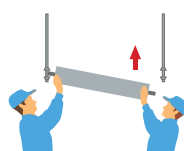
Suspension work simplified with well-designed mounting plates



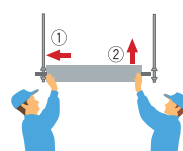
Installation Example



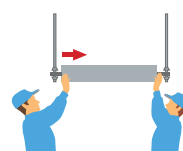
Flexible drain joints simplify drain piping work in narrow ceiling areas



Secure one side



① Push the unit to the other side
② Secure the opposite side



Move unit to the centre

MLZ-KA SERIES



Indoor Unit



MLZ-KA25/35/50VA

Panel

MLP-440W

Outdoor Unit

For MXZ Connection Only

Remote Controller



Type				Inverter Heat Pump			
Indoor Unit				MLZ-KA25VA		MLZ-KA35VA	
Outdoor Unit						for MXZ connection	
Refrigerant						R410A ⁽¹⁾	
Power Supply				Source		Outdoor Power supply	
				Outdoor (V / Phase / Hz)		230V / Single / 50Hz	
Cooling	Design load		kW	-		-	
	Annual electricity consumption ⁽²⁾		kWh/a	-		-	
	SEER ⁽³⁾			-		-	
	Energy efficiency class			-		-	
	Capacity	Rated	kW	-		-	
		Min-Max	kW	-		-	
	Total Input	Rated	kW	-		-	
Heating (Average Season)	Design load		kW	-		-	
	Declared Capacity	at reference design temperature	kW	-		-	
		at bivalent temperature	kW	-		-	
		at operation limit temperature	kW	-		-	
	Back up heating capacity		kW	-		-	
	Annual electricity consumption ⁽²⁾		kWh/a	-		-	
	SCOP ⁽⁴⁾			-		-	
	Energy efficiency class			-		-	
	Capacity	Rated	kW	-		-	
		Min-Max	kW	-		-	
	Total Input	Rated	kW	-		-	
Operating Current (Max)				A		0.4	
Indoor Unit	Input		Rated	kW		0.040	
	Operating Current(Max)		A			-	
	Dimensions		H*W*D	mm		175-1102-360	
	Weight		kg	15		15	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾ (Dry/Wet))	Cooling	m ³ /min	7.2-8.0-8.8		7.3-8.4-9.4	
		Heating	m ³ /min	7.0-8.2-9.2		7.7-8.8-9.9	
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	dB(A)	29-32-35		31-34-37	
		Heating	dB(A)	28-32-36		31-35-38	
	Sound Level (PWL)		Cooling	dB(A)	-		-
Panel	Dimensions		H*W*D	mm		34-1200-414	
	Weight		kg	3.5		3.5	
	Dimensions		H*W*D	mm		-	
	Weight		kg	-		-	
Outdoor Unit	Air Volume	Cooling	m ³ /min	-		-	
		Heating	m ³ /min	-		-	
	Sound Level (SPL)	Cooling	dB(A)	-		-	
		Heating	dB(A)	-		-	
	Sound Level (PWL)	Cooling	dB(A)	-		-	
		Heating	dB(A)	-		-	
	Operating Current (Max)		A	-		-	
Breaker Size		A	-		-		
Ext. Piping	Diameter		Liquid/Gas	mm		6.35/9.52	
	Max.Length		Out-In	m		-	
	Max.Height		Out-In	m		-	
	Guaranteed Operating Range (Outdoor)		Cooling	°C		-	
		Heating	°C		-		

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂ over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(3) SHi: Super High
(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

Specification on Warmer Condition

Type				Inverter Heat Pump			
Indoor Unit				MSZ-FH25VE		MSZ-FH35VE	
Outdoor Unit				MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ
Refrigerant				R410A ^(*)			
Cooling	Design load		kW	2.5	2.5	3.5	3.5
	Annual electricity consumption ⁽²⁾		kWh/a	96	96	138	138
	SEER			9.1	9.1	8.9	8.9
	Energy efficiency class			A+++	A+++	A+++	A+++
Heating (Warmer Season)	Design load		kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)
	Declared Capacity	at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)
		at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)
		at operation limit temperature	kW	2.5 (-15°C)	1.7 (-25°C)	3.2 (-15°C)	2.6 (-25°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾		kWh/a	376	397	429	471
	SCOP			6.3	6.3	6.5	4.8 / 6.5
Energy efficiency class				A+++	A+++	A+++	A+++

Type				Inverter Heat Pump			
Indoor Unit				MSZ-EF25VE2		MSZ-EF35VE2	
Outdoor Unit				MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH
Refrigerant				R410A ^(*)			
Cooling	Design load		kW	2.5	2.5	3.5	3.5
	Annual electricity consumption ⁽²⁾		kWh/a	103	103	144	144
	SEER			8.5	8.5	8.5	8.5
	Energy efficiency class			A+++	A+++	A+++	A+++
Heating (Warmer Season)	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)
		at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾		kWh/a	304	304	396	396
	SCOP			6.0	6.0	5.7	5.7
Energy efficiency class				A+++	A+++	A+++	A+++

Type				Inverter Heat Pump					
Indoor Unit				MSZ-SF25VE		MSZ-SF35VE		MSZ-SF42VE	
Outdoor Unit				MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH
Refrigerant				R410A ^(*)					
Cooling	Design load		kW	2.5	2.5	3.5	3.5	4.2	4.2
	Annual electricity consumption ⁽²⁾		kWh/a	116	116	171	171	196	196
	SEER			7.6	7.6	7.2	7.2	7.5	7.5
	Energy efficiency class			A++	A++	A++	A++	A++	A++
Heating (Warmer Season)	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.2 (-15°C)	1.6 (-20°C)	3.4 (-15°C)	2.2 (-20°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾		kWh/a	337	337	923 / 418	417	507	507
	SCOP			5.4	5.4	5.4	5.4	5.8	5.8
Energy efficiency class				A+++	A+++	A+++	A+++	A+++	A+++

Type				Inverter Heat Pump	
Indoor Unit				MSZ-GF60VE	MSZ-GF71VE
Outdoor Unit				MUZ-GF60VE	MUZ-GF71VE
Refrigerant				R410A ^(*)	
Cooling	Design load		kW	6.1	7.1
	Annual electricity consumption ⁽²⁾		kWh/a	311	364
	SEER			6.8	6.8
	Energy efficiency class			A++	A++
Heating (Warmer Season)	Design load		kW	2.5 (2°C)	3.7 (2°C)
	Declared Capacity	At reference design temperature	kW	2.5 (2°C)	3.7 (2°C)
		at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)
		at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾		kWh/a	664	963
	SCOP ⁽⁴⁾			5.3	5.4
Energy efficiency class				A+++	A+++

Type				Inverter Heat Pump		
Indoor Unit				MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA
Outdoor Unit				MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA
Refrigerant				R410A ^(*)		
Cooling	Design load		kW	2.5	3.1	5.0
	Annual electricity consumption ⁽²⁾		kWh/a	171	212	292
	SEER			5.1	5.1	6.0
	Energy efficiency class			A	A	A+
Heating (Warmer Season)	Design load		kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
	Declared Capacity	at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾		kWh/a	356	426	539
	SCOP			4.3	4.3	5.5
Energy efficiency class				A+	A+	A+++

(*) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

